أسئلة وإجابتها للصف الأول الثانوي الفصل الدراسى الثانى لغات

Q1 :put a tick(✓)before the right phrases and (x)before the wrong ones:

1- The event “Shown” happens once at the window appearance for the first time . (✓)
2- We 0pen channel of communication between the program that is created in Visual Basic.net language and excel file by using ADO.NET tools. (✓)
3- You can use a variable of type (OleDbCommand) for the purpose of opening a channel of communication data file . (**x**)
4- Type the select Statment : Select * form Table1 to get the number of countries form the data table table1. (**x**)
5- Images can be displayed in the control (PictureBox). (✓)
6- Type the select Statment : Select Count (*) from Table1 retrieve all records form a spreadsheet table1. (**x**)
7- The announcement of a Function is done by using the word “Sub”. (**x**)
8- Images can be displayed in the control(Label). (**x**)
9- Type the f0llowing Select Statement to show the “Continent” column from the data table Table1 without repetition: Select Distinct القارة form Table1. (✓)
10- The function From File is used to assign a picture from a file . (✓)
11- “Flags” is the folder where image files of countries maps will be saved. (**x**)
12- The ($) operator is used to concatenate between string variables and text; the result is a single string. (**x**)
13- The property Display Member of the control ComboBox can be used to specify a field from the data source that appears inside this control. (✓)
14- “da.file”Is a way to fill the rows (records) in (DataTable) inside the memory.(✓)
15- The procedure in the code window begins with command (Function). (**x**)
16- Adjust the Visible property with False value to hidden the control. (✓)
17- When declaring a variables in an event it can،t be used out of the range of this event (✓)
18- Ending of statements (IF) with (End If). (✓)
19- Ending of statements (IF..Then ..Else) with (End If). (✓)
20- The announcement of a procedureis done by using the statement “Private Sub” (✓)

Q2:Choose the correct answer between brackets :

1- The announcement of a procedureis done by using the....... (**private Sub** – Dim – Data Type)
2- .... is used in the declaration of variables. (private Sub – **Dim** – Data Type)
3- Dim dt As New Data Type : the variable is .... and his type ....
(column – **Dt** – **Data Type**)
4- The ....control is used to select one of its elements .
(column – **ComboBox** - Data Type)
5- “.............” is the folder where image files of countries flags will be saved.
(Variable – **Flags** - property)

6- We can use DisplayMember .... of the ComboBox tool , to determine the column of the data source content, to display in this tool. (Variable – Flags - **property**)

7- Dim Variable Name As .... Type. (**Variable** – Flags - property)

8- When using the where Condition the value assigned to string constant is placed between . (Flags – **quotations** – Visual Basic.Net)

9- The programming language wich used in typing the program code is ....

(Flags – quotations – **Visual Basic.Net**)

10- Assign the value used for the command of the communication channel to the property (Connection) .My command.......................= My Connection. (Da – **Connection** - sql)

11- Assign the value used for the command with the Select statement through the property (command Text) .My command. command Text= .... (Da – Connection - **sql**)

12- Assign the value used for the variable da through the property (Select command).

(**Da** – Connection - sql)

13- When using the where condition the value assigned to string constant is placed between .... (**quotations** – Where - DataSource)

Q3: Choose the correct answer:

1- A variable of type ....in – memory . in which we store data that were brought from the data file
   a- ADO.NET
   b- OledbConnection
   c- Data Table
2- From the list of class names in code window.select ....
   a- Method names
   b- Controls names
   c- Folder names
3- Type the Select Statment required .to get the number of countries from the data table Table1.
   a- Select Count (*) from Table1
   b- Select (*) from Table1
   c- Select Total (*) from Table1
4- The announcement of a function is done by using the word ....
   a- Sub
   b- Function
   c- IF
5- Press .... button on the keyboard to open the Code window.
   a- F5
   b- F7
   c- F4

6- The return value from the function (GetDatafromExcelSheet).is of type........

a- ADO.NET

b- <u>Data table</u>

c- OleDbConnection

<u>Q4- Give the suitable term to the following sentences :</u>

1- Awindow where the event handler are typed. (**<u>Code window)</u>**

2- It is a statement which is used for discovering the errors which occurs during the program runtime . (**<u>Try / catch)</u>**

3- It is the blueprint that describes the details which any object takes its properties . Methods and .Events. **<u>Class</u>**

4- The basic constructive element in Object Oriented Programming. **<u>Object</u>**

5- It is a link between the database and Visual basic. **<u>Provider</u>**

6- It is a Programming language designed for managing database files. **<u>Sql</u>**

7- It is Namespace that contains a set of Classes that can be used to manipulate database. **<u>OleDb</u>**

<u>Q5- Complete the following sentences from between the brackets :</u>

(ValueMember – DataTable – Sub – Try /Catch – ADO.NET - Variable)

1- We 0pen channel of communication between the program that is created in Visual Basic.net language and excel file by using ....tools. **<u>ADO.NET</u>**

2- The property .... of the control ComboBox can be used to specify a field from the data source as the value of each element of the list items. **<u>ValueMember</u>**

3- The announcement of a procedures is done by using the word .... **<u>Sub</u>**

4- You can create a variable of type (.......) in – memory , in which we store data were brought from the data file . **<u>DataTable</u>**

5- You can use .... to discover errors while running the program and display an appropriate message for this error. **<u>Try /Catch</u>**

6- Dim Variable Name As .... Type . **<u>Variable</u>**

<u>Q6: Put (✓) in front of the correct phrase and (×) in front of the wrong ones:</u>

1. To open the code window press F5 key from keyboard. (✖)
2. The function [GetdataFromExcelSheet(FilePath as string, sql As string) As DataTable] returns with value of data type (DataTable). (✓)
3. Begin the declaration of function with the name of (GetdataFromExcelSheet) with the word Sub. (✖)
4. The function (Function) doesn't allow including parameters. (✖)
5. The parameters in the function of (GetdataFromExcelSheet) are FilePath and Sql. (✓)

<u>Q7: Fill in the spaces using the following words:</u>

(Events – names of controls – function – 2 – Dim – FilePath)

1- The function **[GetdataFromExcelSheet(FilePath as string, sql As string) As DataTable]** contend the number of **<u>2</u>** parameters.

2- The parameter **<u>FilePath</u>** for function (GetdataFromExcelSheet) represent the path of Excel file.

3- We declare the function of (GetdataFromExcelSheet) with a word **<u>function</u>**

4- We declare the variable of MyConnection, MyCommand with a word **<u>Dim</u>**

5- In the code window a list of Class Name displays **names of controls**.but the list of Method Name displays **Events**

Q8: Fill in the spaces using the following words:

(Private Sub – Try …. Catch – me - & - NewDataTable – Double – dt)

1- To open the code window on default event handlers for tool **Double** click on the tool on design mode.
2- The Procedure begins on the code window with the phrase **Private Sub**
3- The command (Dim dt as NewDataTable) the variable is **NewDataTable** and variable type is **dt**
4- The word **me** used in the code to indicate the current Form.
5- **Try …. Catch** statement used in detected errors which happens during running the program.
6- Joining symbol **&** used to join string literal to form only one string literal.

Q9: Choose the correct answers:

1- Programming language used in electronic Arabic Atlas project is ………..
(**Visual Basic.net** – Visual C – Visual J)

2- …. is default event for ComboBox tool. (**SelectIndexChanged** – SelectIndex – Index)
3- It's preferable that new name for Button command begin with three letter are …..
(frm – **btn** – utj)

10: Put (✓) in front of the correct phrase and (×) in front of the wrong ones:

1. Visual Basic.net language doesn't allow changing the default name for the tool . (✗)
2. The event (SelectIndexChanged) check item that you choose in ComboBox control. (✓)
3. Using statement (Try … Catch) in discover error that occur during running the program. (✓)
4. Its preferable to start the new name for (label) control with three letters are bel. (✗)

Q11: Put (✓) in front of the correct phrase and (×) in front of the wrong ones:

1. The scope of using variables and constants in the program is defined by declaration place. (✓)
2. The reserved word "Me" used in the code window to refer to the end of procedure. (✗)
3. At the declaration of the variable in the class level it's not allowed to use it except in the event procedure only. (✗)
4. Declaration begins for the variable with the word Dim. (✓)
5. VB.net doesn't allow the declaration about variables without defined its value. (✗)

Q12: Choose the correct answers:

1. To use the variable in more than one procedure without occur errors in the program you should declare about it in the ………….. level. (Tool – **Class** – Procedure)
2. Conditional (If) statement ends with the word ………. (End Sub – Stop If – **End If**)
3. In the case of using conditional (If) statement. If the result of condition is false the program executes command follow the word ……. (Then – **Else** – End Sub)

Q13: Fill in the spaces using the following words:

(name – sound – image – video)

1- Property **name** is common property among all objects and used in dealing with object in code window.
2- The file named (Egypt.wmv) is suitable for making a file **video**
3- The file named (Egypt.mp3) is suitable for making a file **sound**
4- The file named (Egypt.png) is suitable for making a file **image**

Q14- Complete the following sentences

ADO (ActiveX Data Object): It is an advanced technology that can be used to design "Controls" not as ordinary tools; but "Controls" that get access to databases over appropriate applications and develop applications and Programming Projects i.e (Windows Applications and Web Application) that manipulate data from a diversity of databases.

ADO.NET is a set of classes that provides access to multiple data sources; such as "Microsoft SQL Server, Microsoft Access, and Oracle ". These softwares can create/manipulate databases; ADO.NET is a part of the Framework.

Class: A (Class) is the blueprint/ plan / template, from which the individual objects, are created. It is the blueprint that describes the details which any object takes (its Properties, Methods and, Events); and are derived from the (Class).

Object: An Object is characterized by:

1- The properties that describe and specify an Object.
2- The events that occur on an Object.
3- The methods or actions that an object can perform; upon the occurrence of a particular event.

An (Object) is the basic constructive element in Object Oriented Programming; it is created from a defined class. Thus an (Object) exists only after a certain (Class) has been created.

Namespace: A Namespace contains a set of related classes that can be used when needed.

Framework: Is the platform for Visual Studio. NET applications that :

1- Enables developers to create applications like (Desktop applications , Web applications and Mobile applications).
2- Provides a development environment for running all applications.

The Framework is composed of :

1- The execution engine (CLR) Common Language Runtime.
2- The .NET class libraries (System Class Libraries).
3- (Compilers).
4- Other elements.

SQL (Structured Query Language) : It is a programming language designed for managing database files

Select: It is one of the SQL statements used to retrieve records from a table or from multiple tables in the database.

DataSource: The source of data (A file located in a storage media or a table stored in the memory).

<u>OleDb:</u> It is a Namespace that contains a set of Classes that can be used to manipulate databases that have been designed using Microsoft Office ; OleDb stands for (Object Linked & Embedded Database)

<u>Provider:</u> It is a link between the database and Visual basic. Each Database program has its own Data Provider (Connection, Command and, DataAdapter).

<u>OleDb.OleDbConnection:</u> It is a (Class) from where we can create a variable "MyConnection "out of this class; to open a communication channel with the worksheet that holds data; in data file.

<u>OleDbCommand:</u> It is a Class from where we can create a variable "MyCommand" out of this class; to execute a query and get data from data file.

<u>OleDb.OleDbDataAdapter:</u> It is a Class from where we can create a variable "da" out of this class; this variable works as a converter of data (Data Adapter) from the database to the data table for the variable dt located in the memory.

<u>MyConnection.ConnectionString:</u> It's a Property that contains the informtion required to open a communication channel like : FilePath , Data Source and, Provider .

<u>CommandText:</u> It is a Property for the variable MyCommand which contains a " String expression" representing a SQL syntax.

<u>DataSet:</u> It is a Class from where we can create a variable: ds. This variable in the computer's memory represents database tables (Data Tables), which was brought from the data file into memory.

<u>DataTable:</u> We can create a variable out of this class: dt. This variable in the computer's memory represents a table for saving data (Data Table), which was brought from the data file.

<u>da.Fill (dt) :</u> Where Fill is a way to fill the rows (records) in (DataTable) inside the memory.

<u>Q15 - Put (✓) in front of the correct phrase and (×) in front of the wrong ones:</u>

1- Me.lblPorts.Text = dt.Rows (0).Item(3).ToString : Rows refer to rows and Items refer to coloumns in the Excel sheet. The rows and columns numbers start with (0); row (o) refers to first row, and item (2) refers to the third column. **(✓)**
2- The command used for inserting an image file to the control (PictureBox3) is: PictureBox3.Image = Image.FromFile ("PictureFilename.ext"). **(✓)**
3- Insert a sound file into the (AxWindowsMediaPlayer) tool by typing the desired file name in the input box (InputBox) that will be executed later. **(✓)**
4- The property SelectedValue of the control "cmbbxState" was used to get the name of the country; to identify the video file name and path. **(✓)**
5- The control WMPlayer was displayed by setting the property Visible to the value True; so you can see the video file displayed on the screen. **(✓)**

6- You can use Try/Catch to discover errors while running the program and display an appropriate message for this error. **(✓)**

7- The code Me.lblDC.Text = dt.Rows(0).Item(2).ToString customize a value to the element in the second row and first column of the data table lblDC. (x)

8- The event SelectedIndexChanged of the control ComboBox is executed when changing the current item in the existing list. **(✓)**

9- The (&) operator is used to concatenate between string variables and text; the result is a single string. **(✓)**

10- The code Me.lblDC.Text = dt.Rows(0).Item(2).ToString customize a value to the element in the first row and third column in the spreadsheet and places it within the lblDC. **(✓)**

11- The function FromFile is used to assign a picture from a file. **(✓)**

12- The property DisplayMember of the control ComboBox can be used to specify a field from the data source that appears inside this control. **(✓)**

13- The property ValueMember of the control ComboBox can be used to specify a field from the data source as the value of each element of the list items. **(✓)**